

What is claimed is:

1. A flat cathode-ray tube comprising an electron gun having a main focus lens whose center coincides with a tube axis, a deflection yoke, and a magnet disposed outside of a neck, characterized in that

a prefocus lens of the electron gun is separated from the tube axis.

2. The flat cathode-ray tube according to claim 1, characterized in that an electron beam at the time of non-deflection is irradiated on a screen inoperative portion except a frit junction portion of a tube body.

3. An electron gun for a flat cathode-ray tube comprising a cathode and a plurality of grids, characterized in that a prefocus lens is separated from a center axis of an electron gun in a direction in which an axis-separating amount of an electron beam caused by a magnetic field of a magnet which is disposed outside of a neck becomes smaller.

4. The electron gun for the flat cathode-ray tube according to claim 3, characterized in that centers of electron beam through holes of first and third grids of the plurality of grids coincide with a center axis of the electron gun, and a center of an electron beam through hole of second grid is separated from the center axis.

5. The electron gun for the flat cathode-ray tube according to claim 4, characterized in that an axis-separating

amount of the center of the electron beam through hole of the second grid is 0 to -30 μm (0 is not included).

6. The electron gun for the flat cathode-ray tube according to claim 3, characterized in that centers of electron beam through holes of first and third grids of the plurality of grids coincide with a center axis of the electron gun, and an end surface having an electron beam the of a second grid is inclined with respect to the center axis.

7. A producing method of an electron gun for a flat cathode-ray tube, comprising the steps of:

preparing a first grid having an electron beam through hole formed at a reference position and having a positioning hole formed at another reference position, and preparing a second grid having an electron beam through hole separated from a reference position by a predetermined distance and having a positioning hole formed at another reference position, and

inserting positioning means in the positioning holes of the first and second grids for positioning the first and second grids in a state that a spacer is interposed between the first and second grids.

8. A producing method of an electron gun for a flat cathode-ray tube, comprising the steps of:

preparing a first grid having an electron beam through hole formed at a reference position and having a positioning hole formed at another reference position, and preparing a

second grid having an electron beam through hole formed at a reference position and having a positioning hole formed at another reference position, and

inserting positioning means in the positioning holes of the first and second grids for positioning the first and second grids such that an end surface having an electron beam through hole of the second grid is inclined with respect to the first grid in a state that a tapered spacer is interposed between the first and second grids.

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